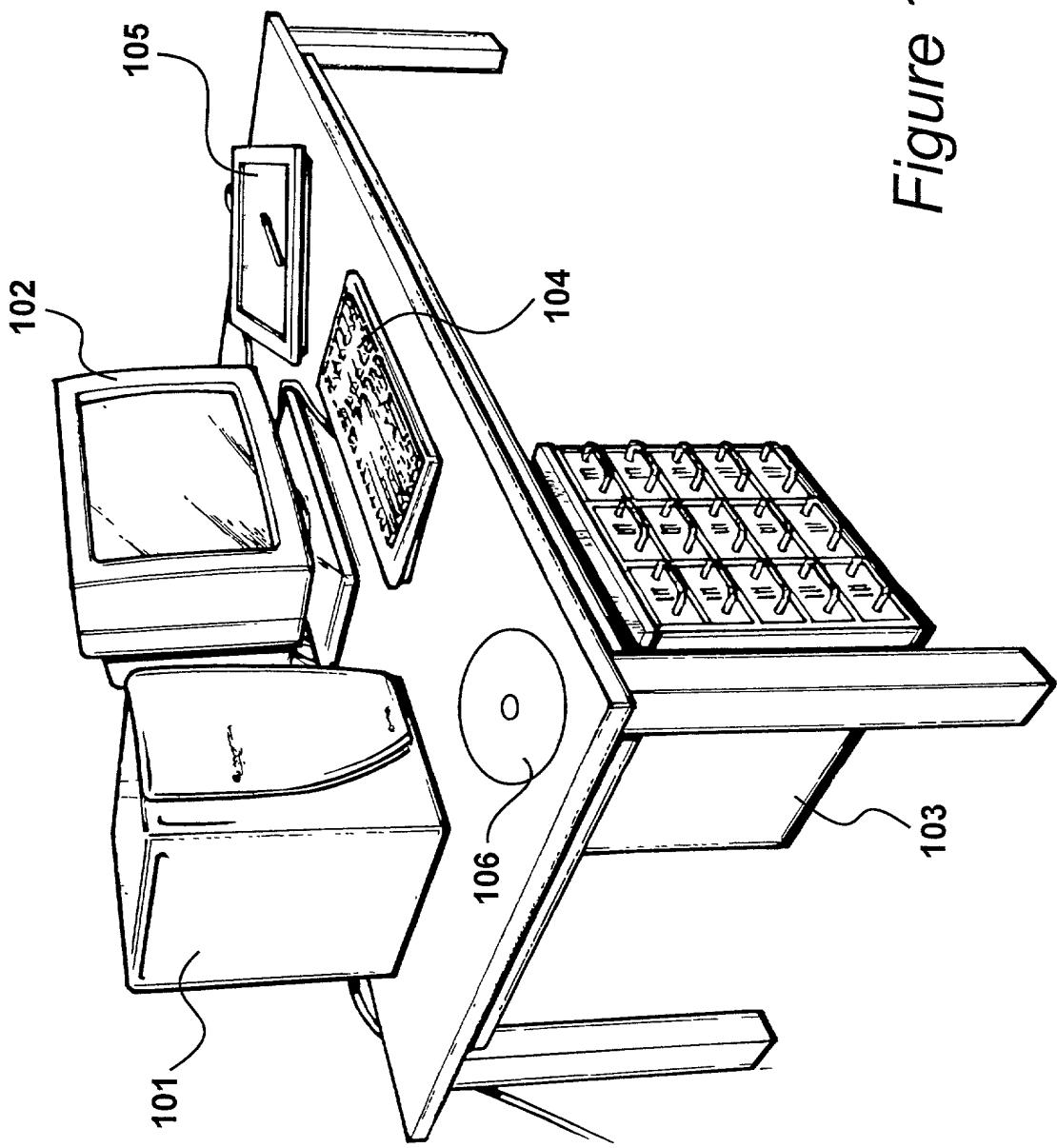


Figure 1

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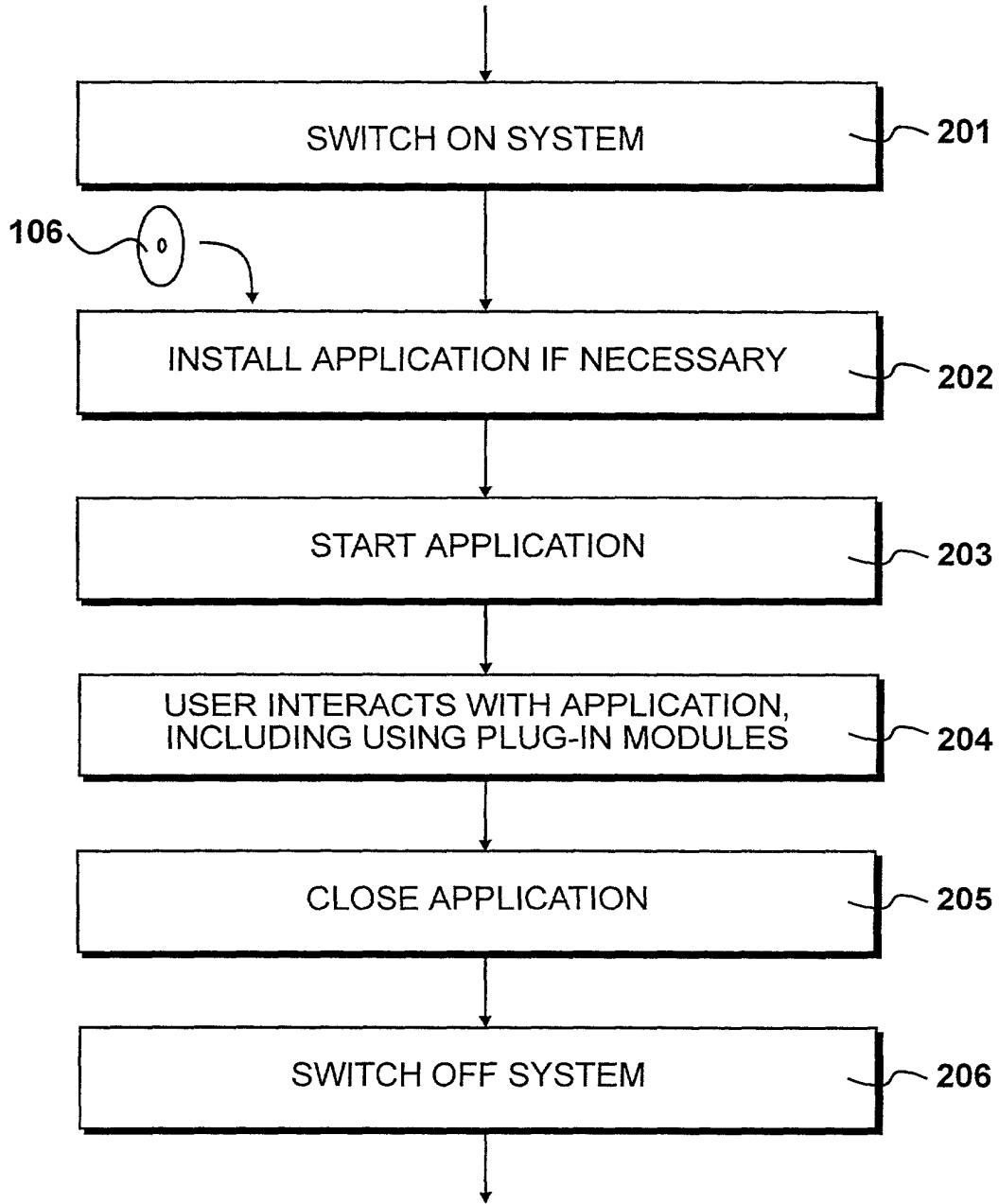


Figure 2

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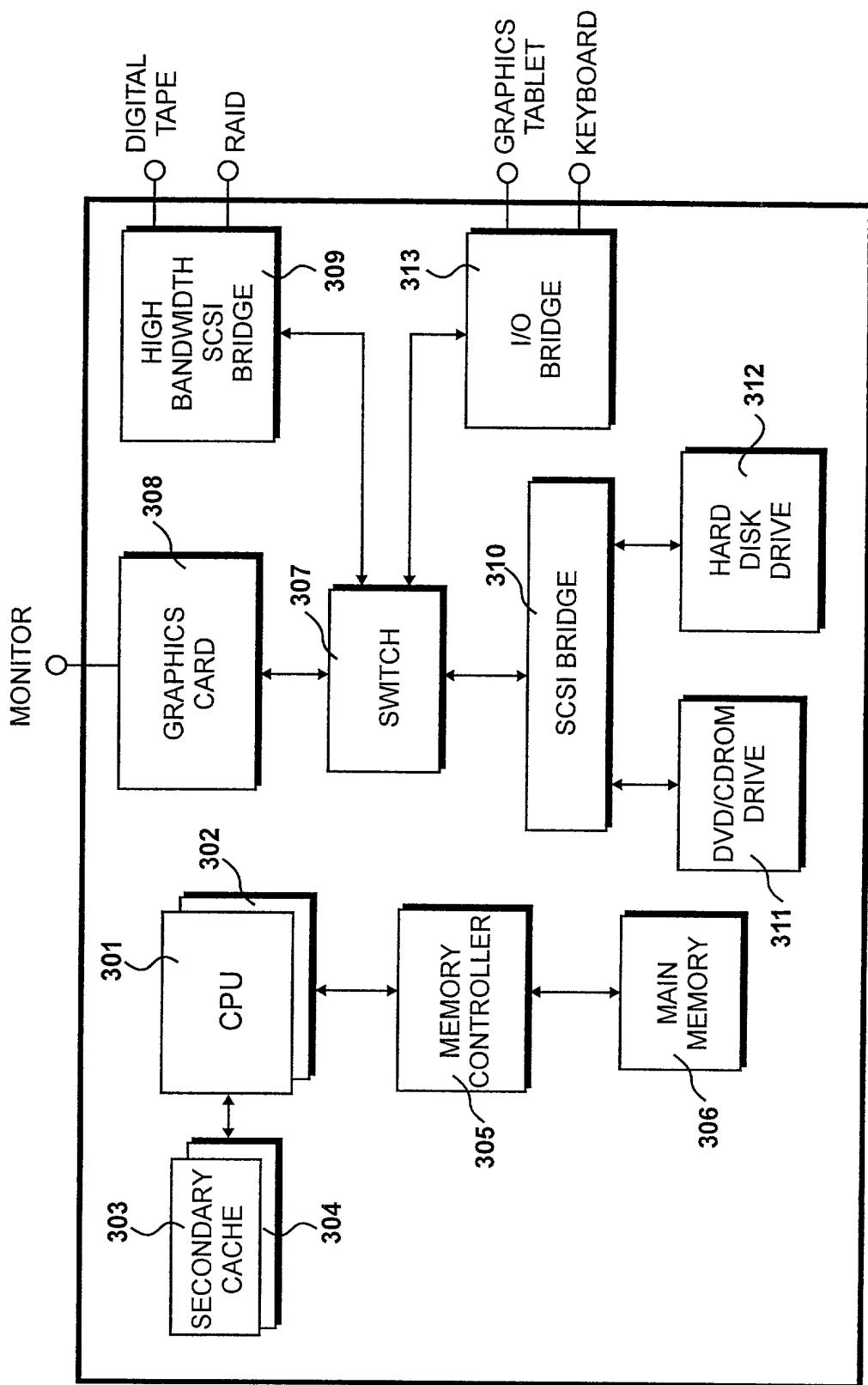
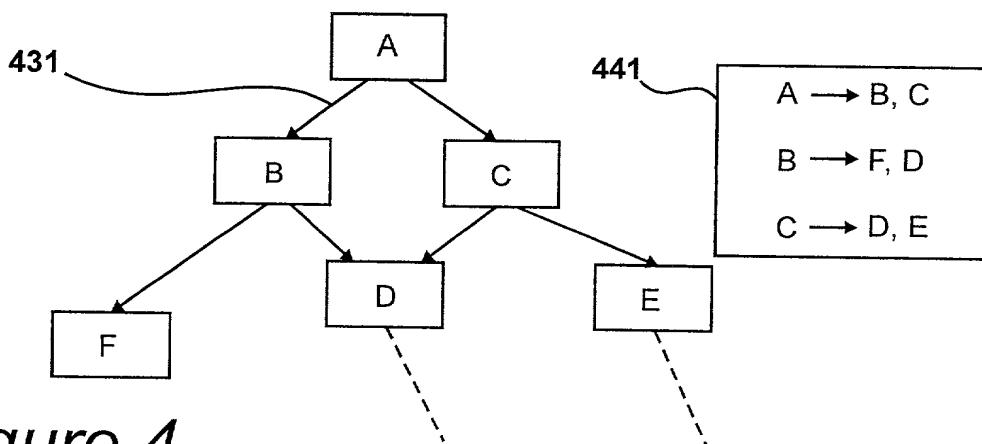
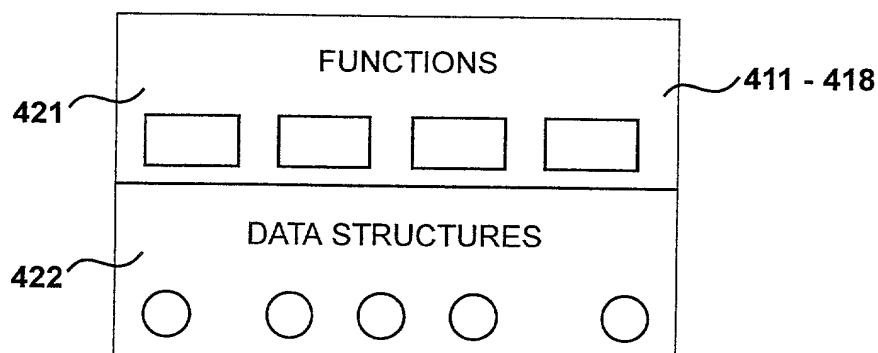
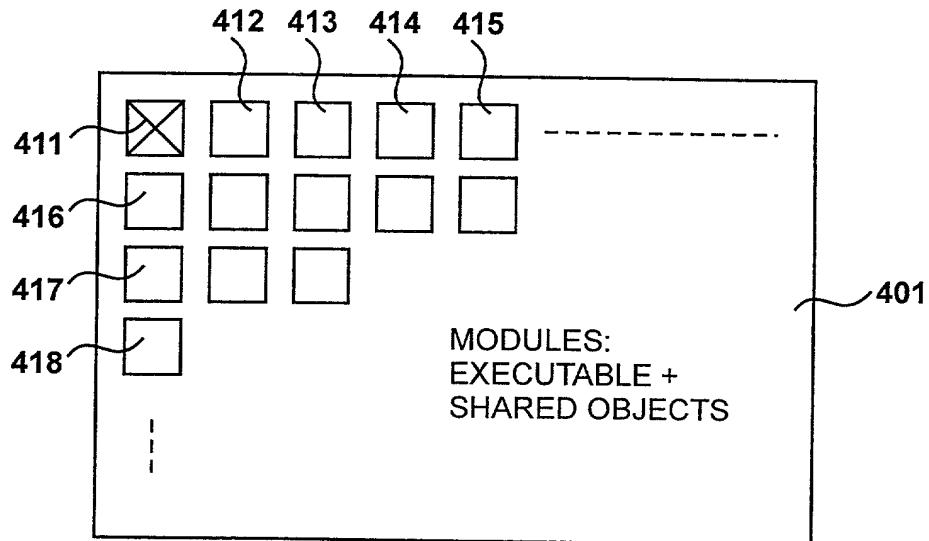


Figure 3

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*Figure 4*

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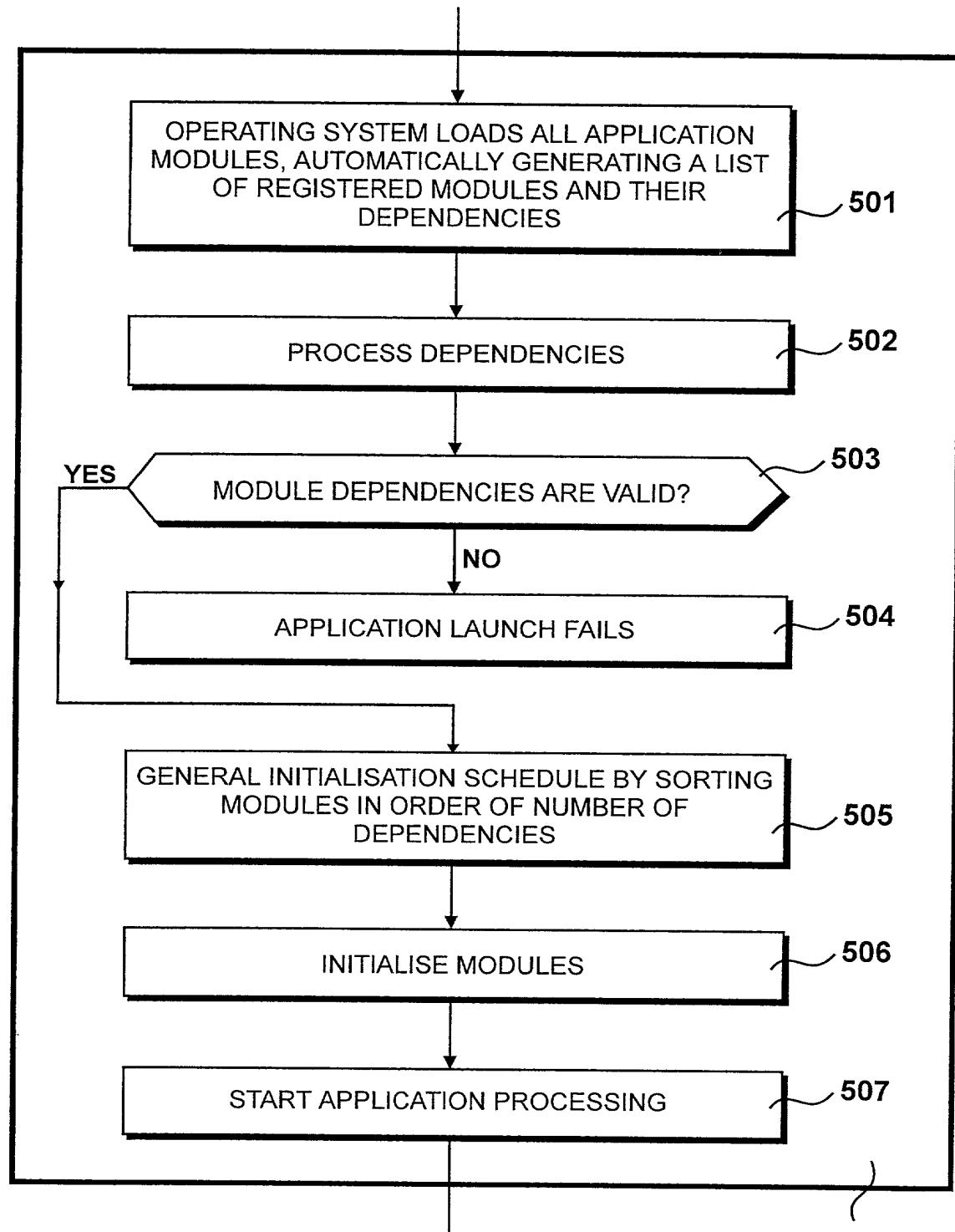


Figure 5

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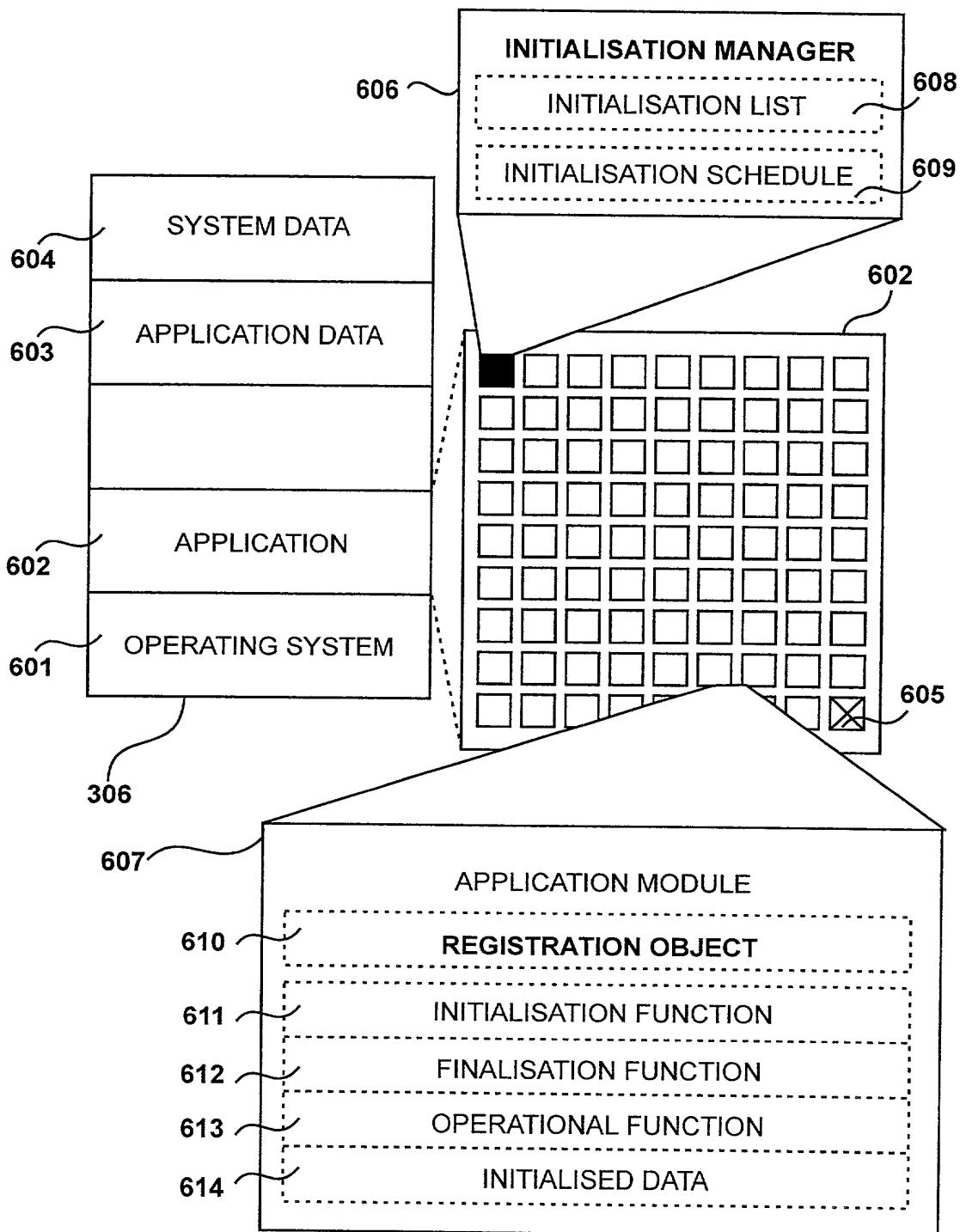


Figure 6

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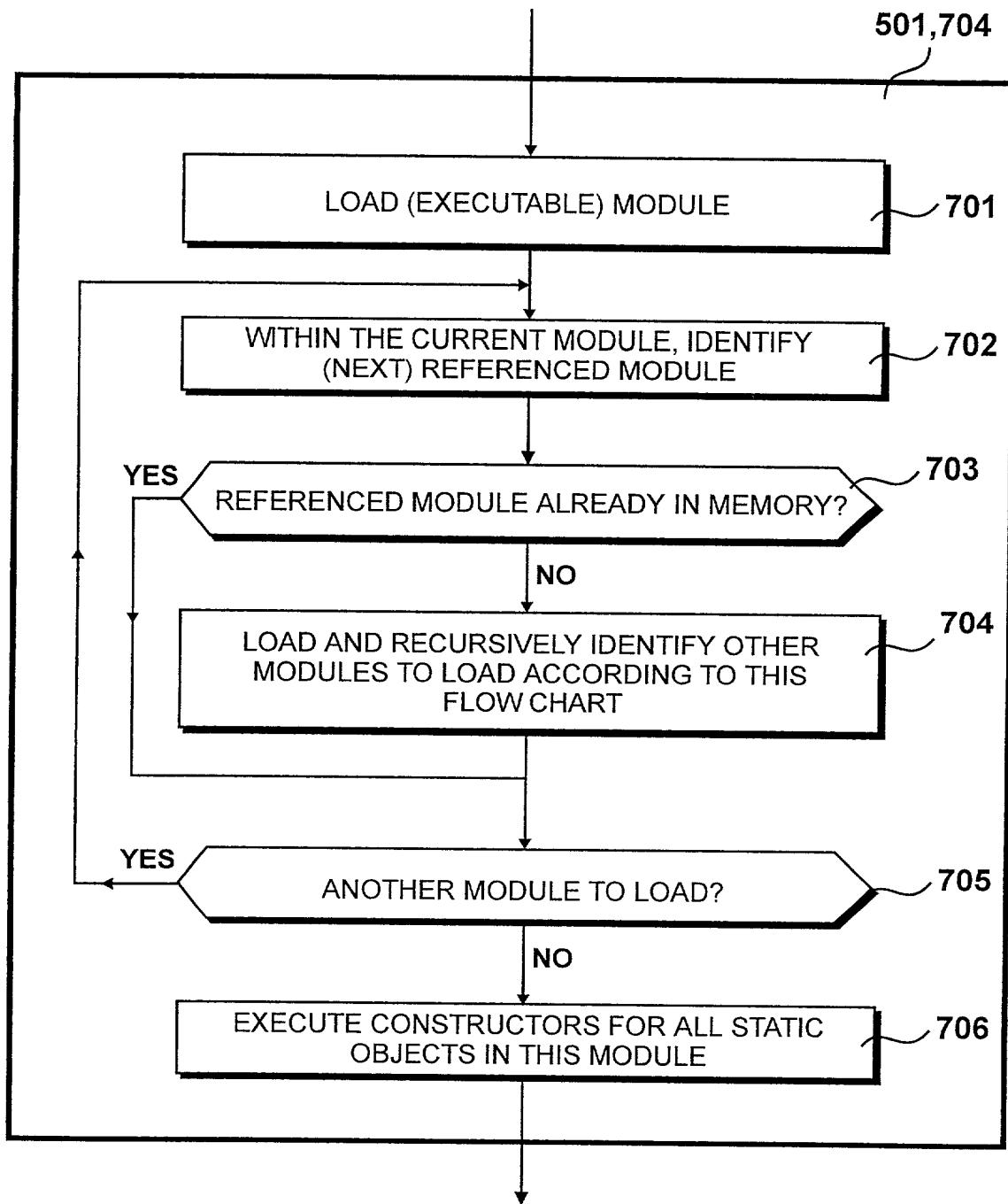


Figure 7

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```
// Filename: foo.cpp

#include <database.h>
#include <osal.h>
#include <initialize.h>

#include "foo.h"

// Static objects
InInit<foo> _instance; //registration object 801

// Constructor for registration object
InInit<foo>::InInit () { 802

    // Registering Dependencies
    addDependency(InInit<database>::getType());actual call pattern;
    registerDependency(typeInfo(InInit<osal>).typeID());
    registerDependency(typeInfo(InInit<initialize>).typeID());

}

Module initialisation and finalisation functions
InInit<foo>::performInitialise()
    () { 803

        // whatever initialisation this module requires

}
void InInit<foo>::performFinalize()
    () { 804

        // whatever finalisation this module requires

}

// All other module functions from this point on ...
```

Figure 8

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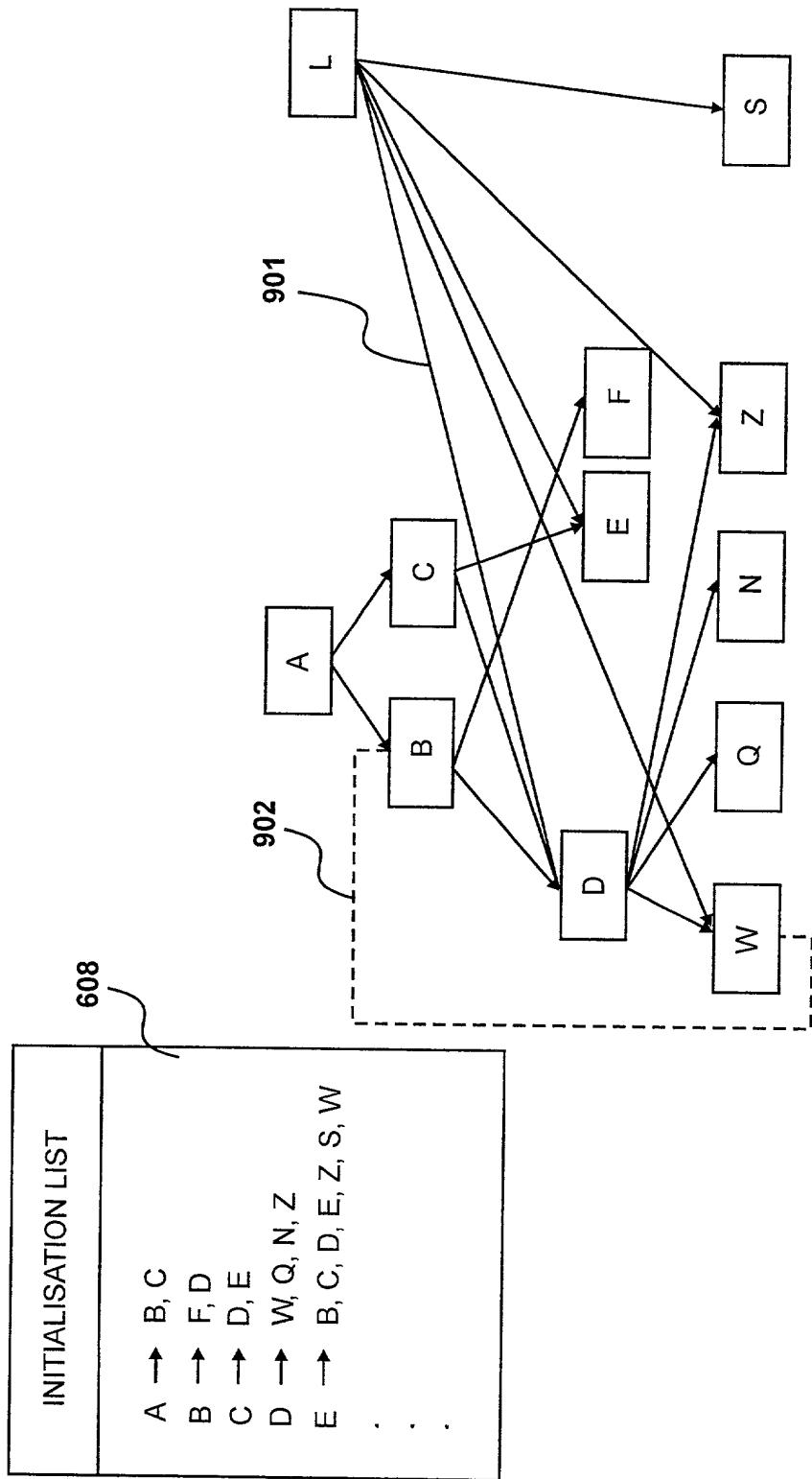


Figure 9

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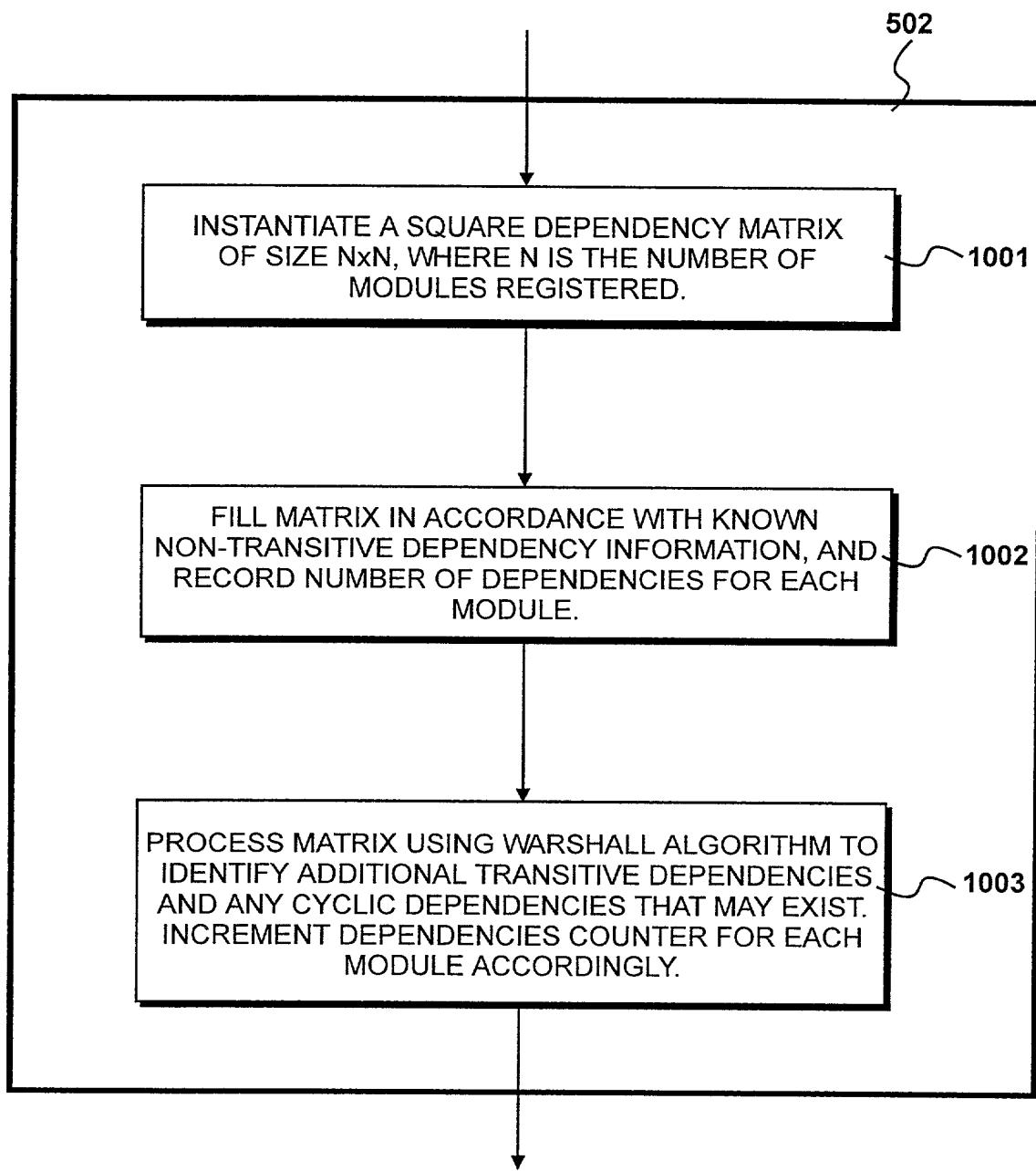


Figure 10

11/20

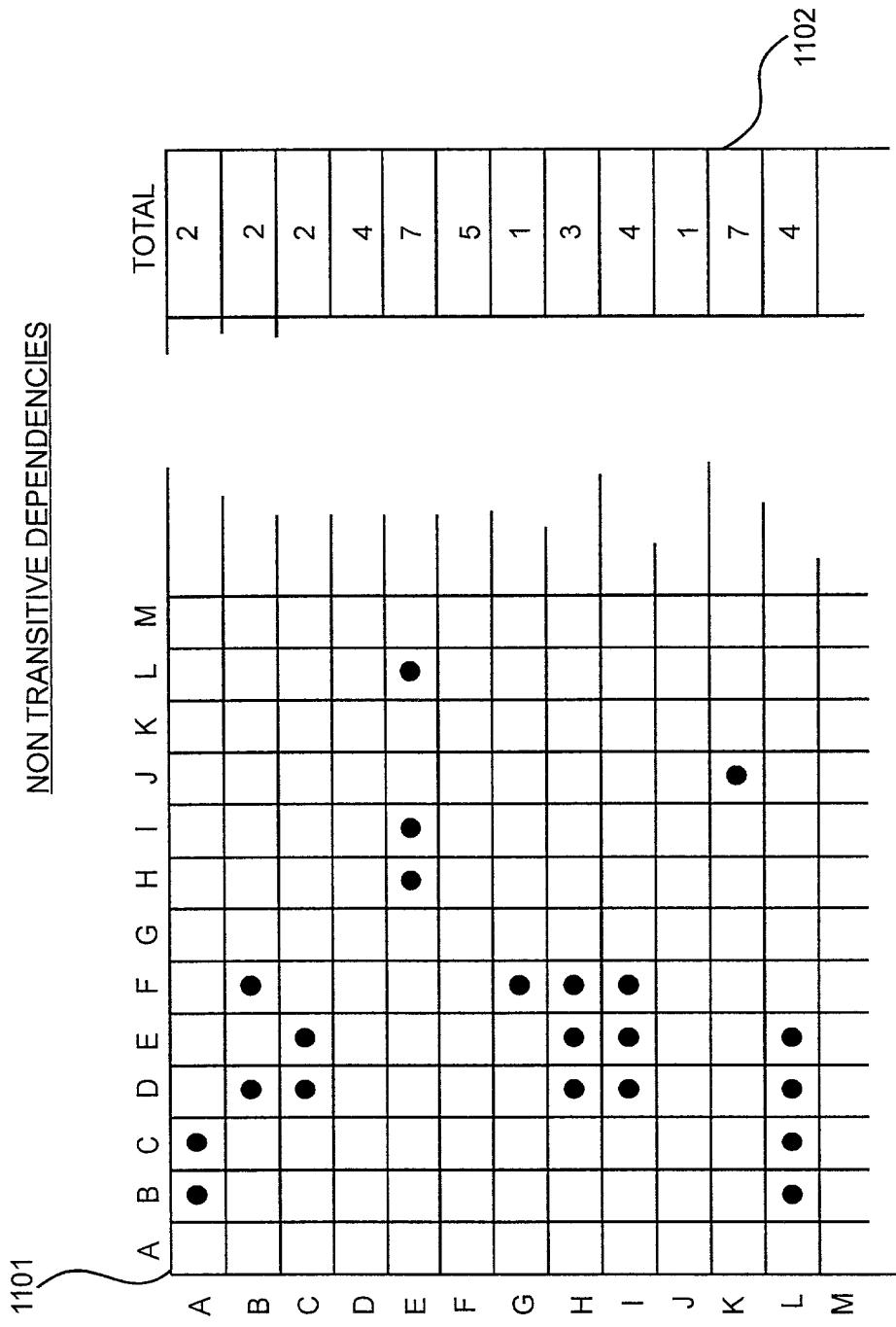


Figure 11

12/20

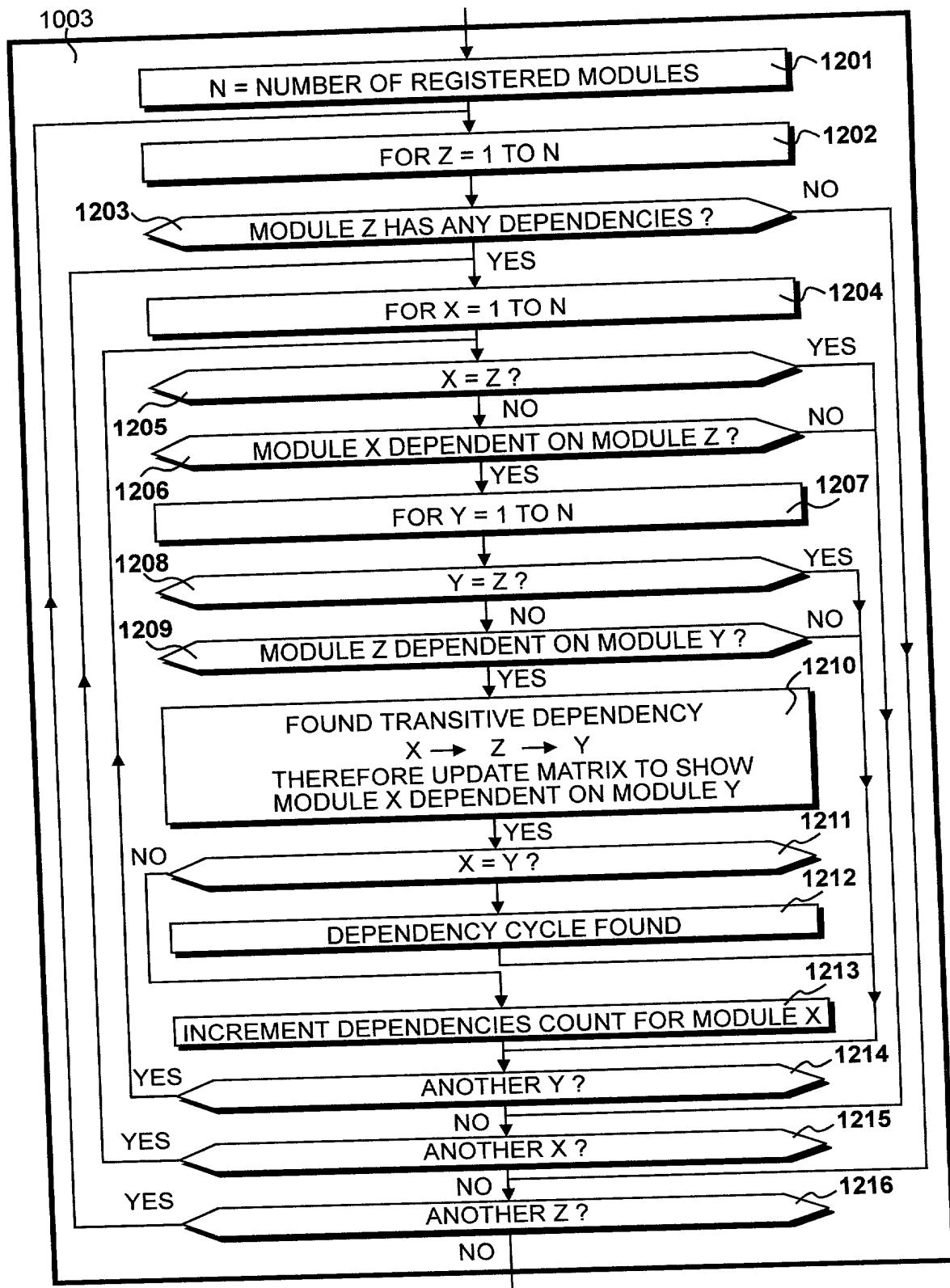


Figure 12

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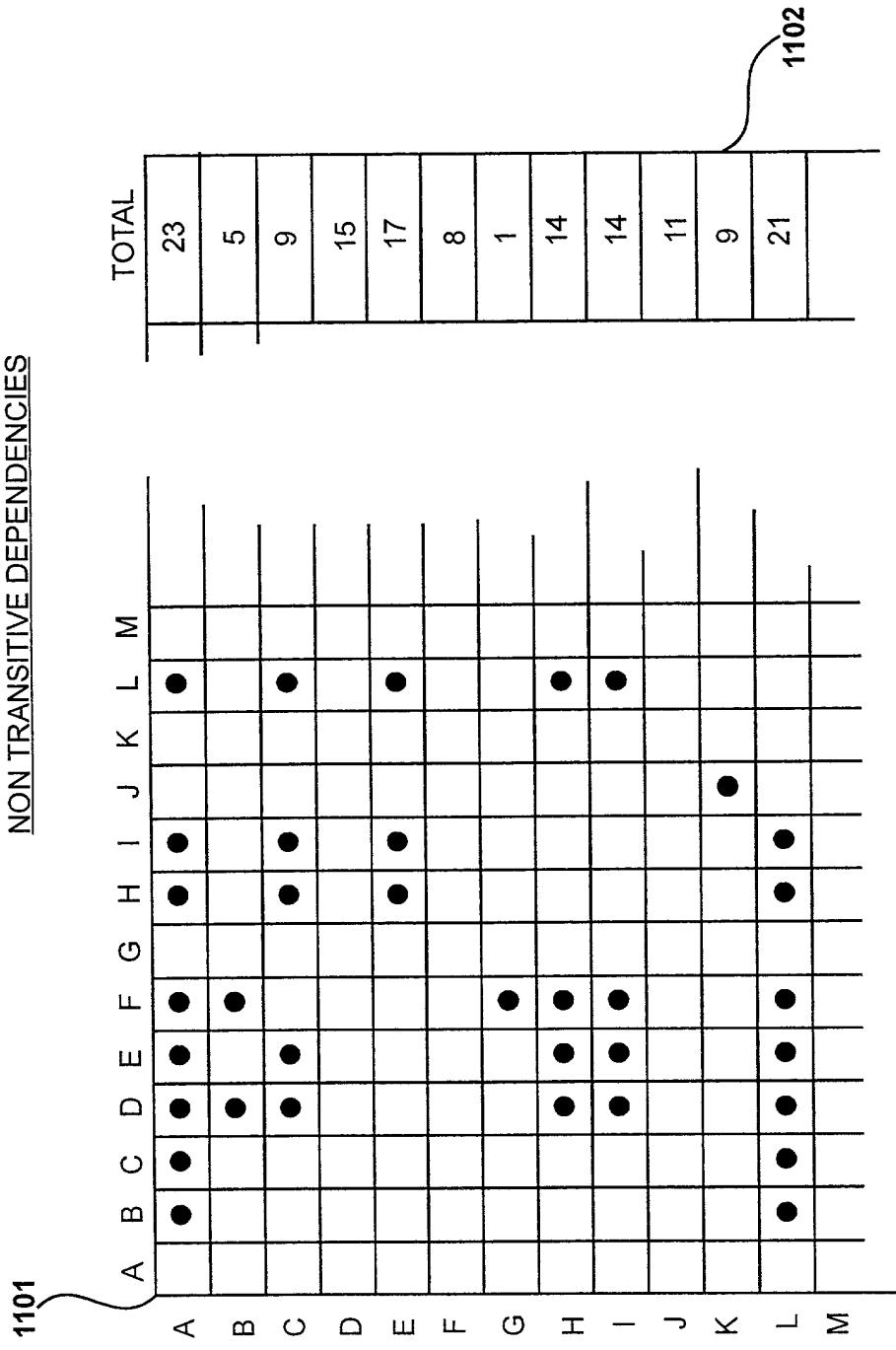


Figure 13

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INITIALISATION SCHEDULE

MODULE	DEPENDENCIES	RANK
G	1	1
B	5	2
F	8	3
C	9	4
K	9	5
J	11	6
H	14	7
I	14	8
D	15	9
E	17	10
L	21	11
A	23	12

609

Figure 14

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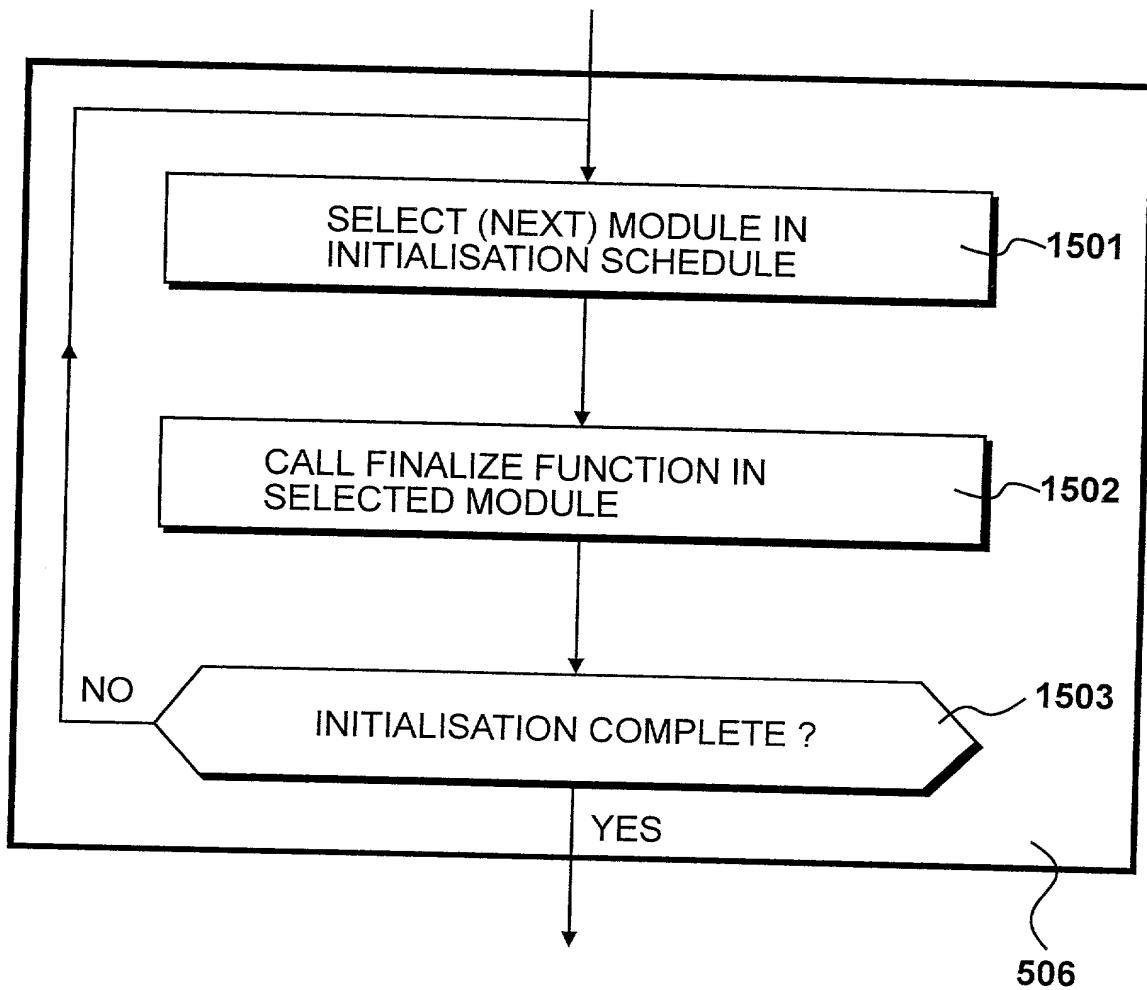


Figure 15

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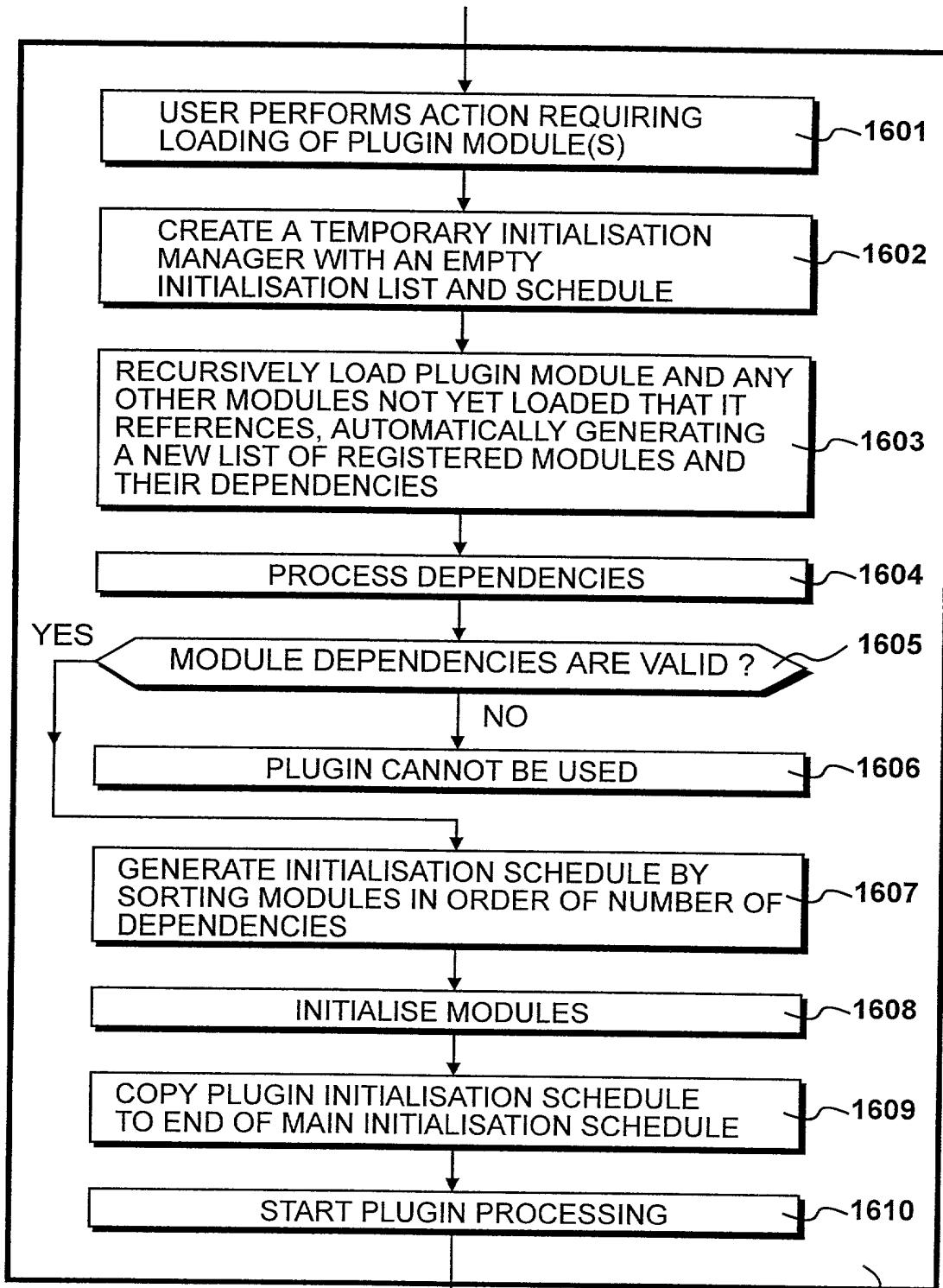


Figure 16

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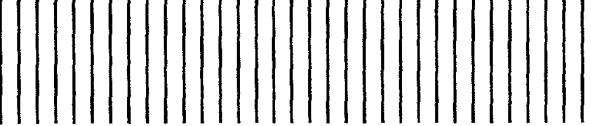
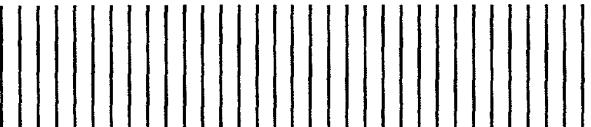
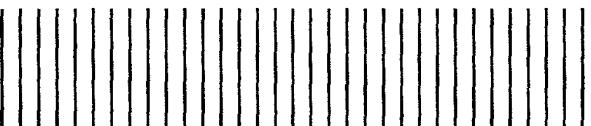
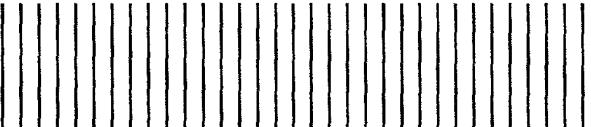
INITIALISATION SCHEDULE		
INITIALISATION SCHEDULE		
INITIALISATION SCHEDULE		
INITIALISATION SCHEDULE		

Figure 17

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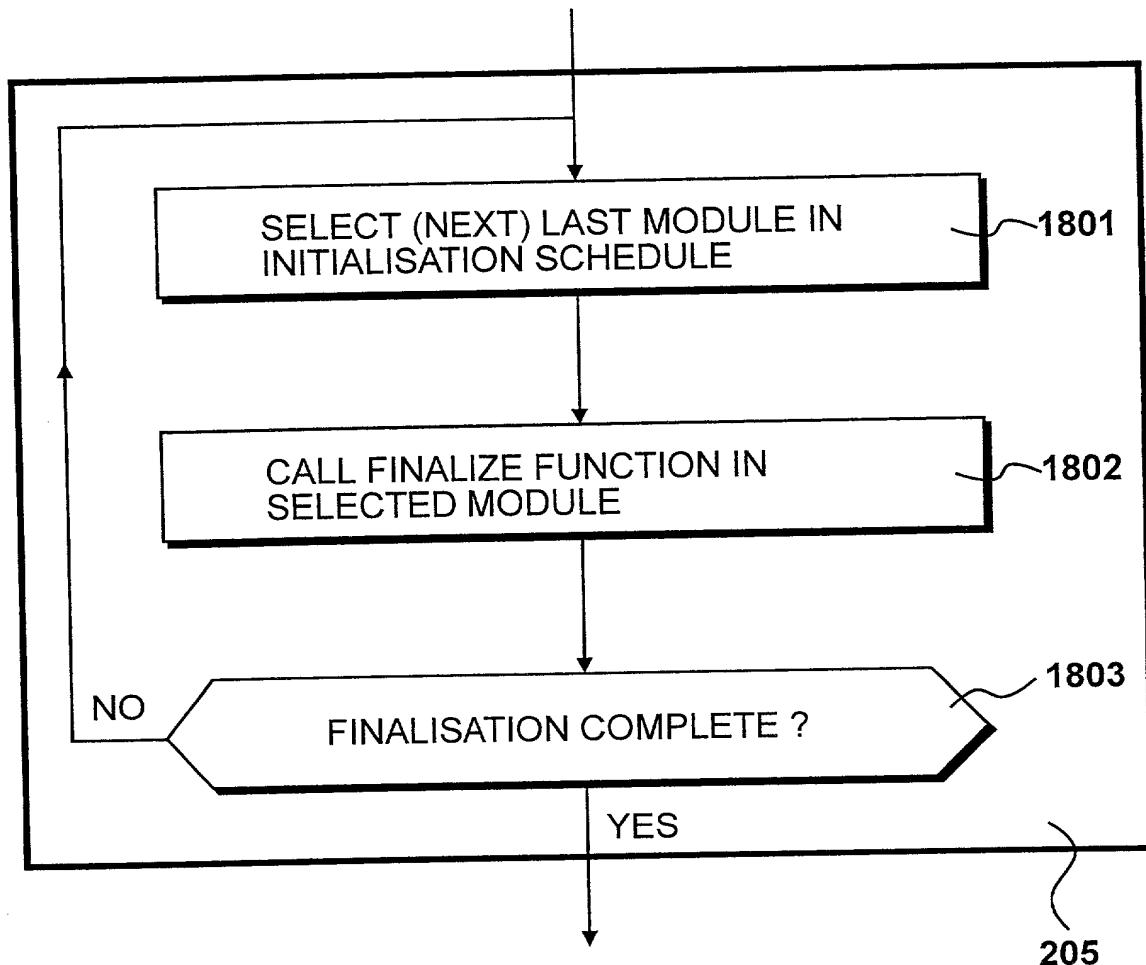


Figure 18

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```
// Filename: main.cpp

#include <fastmath.h>
#include <osal.h>
#include <initialize.h>

#include "main.h"

// Static objects

InInit<main> _instance; //registration object

// Constructor for registration object

InInit<main>::InInit () {

    registerDependency(typeInfo<InInit<fastmath>().typeID());
    registerDependency(typeInfo<InInit<osal>().typeID());
    registerDependency(typeInfo<InInit<initialize>().typeID());


}

main() {
    ~~~~~ 1902
    {
        InitGuard ig; ~~~~~ 1901
        // the rest of the main function goes here
    } ~~~~~ 1903

    // Other functions, include initialise() and finalise()
    // go here ...
}
```

Figure 19

20/20

```
InitGuard : : InitGuard () {  
  
    InInitManager.initialize () ;  
}
```

Figure 20

```
void loadPlugin () {  
    ~ 2101  
    ReInitGuard rig;  
    dlopen ("Plugin1");  
    dlopen ("Plugin2");  
}  
    ~ 2102
```

Figure 21

```
ReInitGuard : : ReInitGuard () {  
  
    ReInitManager.initialize () ;  
}
```

Figure 22